

ExProfile[™] Human JAK/STAT Signaling Related Gene qPCR Array

For focused group profiling of human JAK/STAT signaling related gene expression

Cat. No. QG034-A (1 x 96-well plate, Format A) Cat. No. QG034-B (1 x 96-well plate, Format B) Cat. No. QG034-C (1 x 96-well plate, Format C) Cat. No. QG034-D (1 x 96-well plate, Format D) Cat. No. QG034-E (1 x 96-well plate, Format E)

Plates available individually or as a set of 6. Each set contains 84 unique gene primer pairs deposited in one 96-well plate.

Introduction

The ExProfile human JAK/STAT signaling related gene qPCR array profiles the expression of 84 human genes related to JAK/STAT-mediated signal transduction. These genes are carefully chosen for their close pathway correlation based on a thorough literature search of peer-reviewed publications. This array allows researchers to study pathway-related genes to gain understanding of their roles in the JAK/STAT signaling pathway.

QG034 plate 01: 84 unique gene PCR primer pairs

Shipping and storage conditions

Shipped at room temperature
Stable for at least 6 months when stored at -20 ℃

Array format

GeneCopoeia provides five qPCR array formats (A, B, C, D, and E) suitable for use with the following real-time cyclers.

Important note: Upon receipt, please check to make sure that the correct array format was ordered to ensure compatibility with your qPCR instrument.

Plate format	Instrument provider	qPCR instrument model
A (96-well)	Applied Biosystems	5700, 7000, 7300, 7500, 7700, 7900HT (Standard 96-well block), ViiA TM 7 (Standard 96-well block)
B (96-well)	Applied Biosystems	7500 (Fast block), 7900HT (Fast block), StepOnePlus TM , ViiA TM 7 (Fast block)
C (96-well)	Bio-Rad Laboratories	iCycler iQ [®] , MyiQ™, iQ™5
D (96-well)	Bio-Rad Laboratories	CFX96™, DNA Engine Opticon™, DNA Engine Opticon 2™, Chromo4™
E (96-well)	Roche Applied Science	LightCycler® 480 (96-well block)

Quality control

- 1. Each pair of primers in the ExProfile gene qPCR array has been experimentally validated to yield a single dissociation curve peak and to generate a single amplicon of the correct size for the targeted gene.
- 2. The positive PCR controls (PCR) have been verified to amplify a single amplicon of the correct size with Ct values around 20±2.
- 3. The Spike-in reverse transcription controls (RT) have been verified to amplify a single amplicon of the correct size with Ct values around **20±3**.
- 4. $R^2 > 0.99$ was observed for high inter/ intra-array reproducibility.

Materials required but not provided

All-in-OneTM First-Strand cDNA Synthesis Kit
All-in-OneTM qPCR Mix
Total RNA extraction kit (RNAzol® RT RNA extraction reagent is recommended)
DNase/RNase free tips, PCR reaction tubes, 1.5 ml microcentrifuge tubes
5 ml and 10 ml graduated pipettes, beakers, flasks, and cylinders
10 µl to 1,000 µl adjustable single channel micropipettes with disposable tips
5 µl to 20 µl adjustable multichannel micropipette, disposable tips, and reservoir qPCR instrument, compatible with gene qPCR arrays ordered

Array layout

	1	2	3	4	5	6	7	8	9	10	11	12
Α	A2M	SH2B2	BCL2L1	CCND1	CDKN1A	CRK	CRP	CSF1R	CSF2RB	CXCL9	EGFR	EPOR
В	F2	F2R	FAS	FCER1A	FCGR1A	ISG15	GATA3	GBP1	GHR	IFNAR1	IFNG	IFNGR1
С	IL10RA	IL20	IL2RA	IL2RG	IL4	IL4R	IL6ST	INSR	IRF1	JAK1	JAK2	JAK3
D	JUN	JUNB	MMP3	MPL	MYC	NFKB1	NOS2A	NR3C1	OAS1	PDGFRA	PIAS1	PIAS2
Ε	PPP2R1A	PRLR	PTPN1	PTPRC	SLA2	SMAD1	SMAD2	SMAD3	SMAD4	SMAD5	SOCS1	SOCS2
F	SOCS3	SOCS4	SOCS5	SP1	SPI1	SRC	STAM	STAT1	STAT2	STAT3	STAT4	STAT5A
G	STAT5B	STAT6	TYK2	YY1	HPRT1	FAS	IL6ST	PTPRC	STAT3	CEBPB	OSM	STUB1
Н	HGDC	HGDC	GAPDH	ACTB	B2M	RPL13A	HPRT1	RN18S1	RT	RT	PCR	PCR

Figure 1. Illustration of QG034 plate 01

- **Gene primer pairs**: 84 wells (A row to G row) are designated for a real-time PCR assay for genes (see the primer list).
- **HK1-6**: Six pre-deposited housekeeping gene (HK1-6) primer pairs, which can be used as endogenous positive controls as well as for array normalization.
- **GDC**: Genomic DNA controls, which can be used to specifically detect genomic DNA contamination with a high level of sensitivity.
- RT: Spike-in reverse transcription controls, which can be used to monitor the efficiency of the RT reactions. These pre-deposited primer pairs specifically amplify the cDNA template reverse transcribed from the spike-in control RNA in the sample.
- **PCR**: Positive PCR controls, which are used to verify the PCR efficiency by amplifying the predeposited DNA template with its specific pre-deposited primer pairs.

Gene primer list

Plate	Position	Catalog No. of Primer	Accession No. of Gene	Symbol
QG034-01	A01	HQP008678	NM_000014	A2M
QG034-01	A02	HQP000726	NM_020979	SH2B2
QG034-01	A03	HQP016238	NM_138578	BCL2L1
QG034-01	A04	HQP016204	NM_053056	CCND1
QG034-01	A05	HQP000331	NM_000389	CDKN1A
QG034-01	A06	HQP002988	NM_016823	CRK
QG034-01	A07	HQP002994	NM_000567	CRP
QG034-01	A08	HQP003158	NM_005211	CSF1R
QG034-01	A09	HQP003170	NM_000395	CSF2RB
QG034-01	A10	HQP011220	NM_002416	CXCL9
QG034-01	A11	HQP004605	NM_005228	EGFR
QG034-01	A12	HQP004958	NM_000121	EPOR
QG034-01	B01	HQP005052	NM_000506	F2
QG034-01	B02	HQP005053	NM_001992	F2R
QG034-01	B03	HQP009651	NM_000043	FAS
QG034-01	B04	HQP005238	NM_002001	FCER1A
QG034-01	B05	HQP005251	NM_000566	FCGR1A
QG034-01	B06	HQP023013	NM_005101	ISG15
QG034-01	B07	HQP007166	NM_002051	GATA3
QG034-01	B08	HQP007221	NM_002053	GBP1
QG034-01	B09	HQP007395	NM_000163	GHR
QG034-01	B10	HQP009458	NM_000629	IFNAR1
QG034-01	B11	HQP009467	NM_000619	IFNG
QG034-01	B12	HQP009469	NM_000416	IFNGR1
QG034-01	C01	HQP009686	NM_001558	IL10RA
QG034-01	C02	HQP012157	NM_018724	IL20
QG034-01	C03	HQP009650	NM_000417	IL2RA
QG034-01	C04	HQP009659	NM_000206	IL2RG
QG034-01	C05	HQP009662	NM_000589	IL4
QG034-01	C06	HQP009664	NM_000418	IL4R
QG034-01	C07	HQP009674	NM_002184	IL6ST
QG034-01	C08	HQP009764	NM_000208	INSR
QG034-01	C09	HQP009778	NM_002198	IRF1
QG034-01	C10	HQP009849	NM_002227	JAK1
QG034-01	C11	HQP009850	NM_004972	JAK2
QG034-01	C12	HQP009851	NM_000215	JAK3
QG034-01	D01	HQP009853	NM_002228	JUN
QG034-01	D02	HQP009854	NM_002229	JUNB
QG034-01	D03	HQP011257	NM_002422	MMP3
QG034-01	D04	HQP011308	NM_005373	MPL
QG034-01	D05	HQP011597	NM_002467	MYC

Product Data Sheet

QG034-01 D06 HQP011807 NM_003998 NFKB1 QG034-01 D07 HQP011866 NM_0000176 NOS2A QG034-01 D08 HQP008401 NM_000176 NR3C1 QG034-01 D09 HQP011984 NM_006206 PDGFRA QG034-01 D10 HQP012866 NM_006206 PDGFRA QG034-01 D11 HQP021271 NM_016166 PIAS1 QG034-01 D12 HQP022005 NM_004671 PIAS2 QG034-01 E01 HQP014147 NM_014225 PPP2R1A QG034-01 E02 HQP015027 NM_000949 PRLR QG034-01 E03 HQP015828 NM_002827 PTPN1 QG034-01 E04 HQP015908 NM_002838 PTPRC QG034-01 E06 HQP054006 NM_005900 SMAD1 QG034-01 E06 HQP054006 NM_005901 SMAD2 QG034-01 E08 HQP010961 NM_005902 SMAD3 QG034-01	
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QG034-01 G09 HQP017769 NM_213662 STAT3	
QG034-01 G10 HQP000623 NM_005194 CEBPB	
QG034-01 G11 HQP012081 NM_020530 OSM	
QG034-01 G12 HQP000334 NM_005861 STUB1	
QG034-01 H01 HGDC	
QG034-01 H02 HGDC	
QG034-01 H03 HQP006940 NM_002046 GAPDH	
QG034-01 H04 HQP016381 NM 001101 ACTB	

Product Data Sheet

QG034-01	H05	HQP015171	NM_004048	B2M
QG034-01	H06	HQP006171	NM_012423	RPL13A
QG034-01	H07	HQP009026	NM_000194	HPRT1
QG034-01	H08	HQP054253	NR_003286	RN18S1
QG034-01	H09	RT		
QG034-01	H10	RT		
QG034-01	H11	PCR		
QG034-01	H12	PCR		

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